

Application No.: 09/626,026

Case No.: 54942US002

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently amended) A polymeric composition, comprising, a polyurethane polymer derived from a polyisocyanate compound and a polyactive hydrogen compound, said polyurethane polymer at least partially endcapped at a terminal position with a group including at least one antimicrobial quaternary ammonium group, said polymeric composition capable of forming a self supporting film.

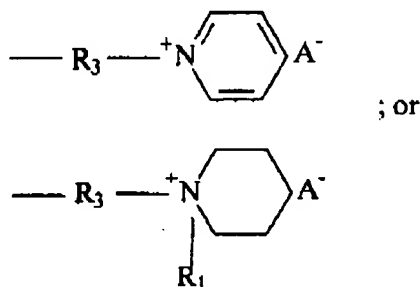
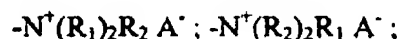
Claims 2-16 (Canceled)

17. (Previously presented) The polymeric composition of claim 1, wherein the at least one antimicrobial quaternary ammonium group is located on an addition polymerized group and wherein said polyurethane polymer is derived from a monol or polyol vinylic compound and wherein the total equivalents of isocyanate used to form said polyurethane polymer is greater than the equivalents of active hydrogen groups contributed by said polyactive hydrogen compound used to form said polyurethane polymer and said monol or polyol vinylic compound, and the addition polymerization group is formed by reaction of said monol or polyol vinylic compound with a vinylic compound having at least one antimicrobial quaternary ammonium group.

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18. (Previously presented) The polymeric composition of claim 17, wherein the one antimicrobial quaternary ammonium group of said vinylic compound is selected from



where each R_1 is independently C1-C4 alkyl optionally substituted in or on the chain by N, O, and S [(e.g. hydroxyethyl)], benzyl, C1-C4 substituted benzyl, and Ph-O-CH₂CH₂- where Ph= phenyl; R_2 is C8-C26 straight or branched chain alkyl or C8-C30 aralkyl optionally substituted in or on the chain by N, O and S; R_3 is a linkage group which is C8-C26 alkyl optionally substituted in or on the chain by N, O and S, and A is an anionic counter ion and is selected from halogen, alkyl sulfate, carboxylate, sulfonate, sulfate, phosphonate or phosphate.

Claims 19-40 (Canceled)

41. (Previously presented) A method of preventing the growth of microorganisms on an substrate comprising coating the substrate with an aqueous dispersion of a biocidal polyurethane polymer comprising a polyurethane composition according to claim 1.

42. (Previously presented) An article comprising a substrate coated with the polymeric composition of claim 1.

43. (Previously presented) An article according to claim 42, wherein the substrate is roofing felt, roofing shingle, roofing granules, tile, concrete, metal, polymeric, cloth, fibers or wood.

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44. (Previously presented) An article according to claim 42, wherein the substrate is a medical article.
45. (Currently amended) A polymeric composition, comprising, a polyurethane polymer derived from a polyisocyanate compound and a polyactive hydrogen compound, said polyurethane polymer at least partially endcapped at a terminal position with a group including at least one antimicrobial quaternary ammonium group, wherein said polymeric composition is soluble in water.
46. (Previously presented) The polymeric composition of claim 1 wherein the polyisocyanate compound is a diisocyanate compound and the polyactive hydrogen compound is a diactive hydrogen compound.
47. (Previously presented) A polymeric composition, comprising, a polyurethane polymer derived from a polyisocyanate compound and a vinylic functional diol compound, said polyurethane polymer having a plurality of antimicrobial quaternary ammonium groups, wherein said polymeric composition is capable of forming a self supporting film.
48. (Withdrawn) The article of claim 42 wherein the substrate is a roofing shingle, roofing granules, tile, concrete, or metal, and wherein the polymeric composition is effective against algae from roofing shingles.